

WHAT IS CLAIMED IS:

1           1. A contraceptive or sterilization device for occluding a reproductive  
2 body lumen to prevent the passage of reproductive cells therethrough, comprising:

3                 a) a tubular member having a first end, a second end, and a lumen  
4 extending therein, which is at least in part expandable within the reproductive body lumen  
5 from a first configuration to a second larger configuration; and

6                 b) a mesh member connected to the tubular member, which is permeable  
7 to allow for tissue ingrowth to thereby occlude the reproductive body lumen.

1           2. A contraceptive device installed within a lumen of the patient's  
2 reproductive system, comprising

3                 a) a tubular member having a first end, a second end, and a lumen  
4 extending therein, and having at least a portion thereof which is secured to a body wall  
5 portion defining at least in part the lumen of the patient's reproductive system; and

6                 b) an occluding member connected to the tubular member comprising an  
7 epithelialized mesh which occludes the lumen of the patient's reproductive system  
8 sufficiently to prevent the passage of reproductive cells therethrough.

1           3. A contraceptive system, comprising

2                 a) a catheter having a proximal end, a distal end, and a lumen extending at  
3 least in part therein; and

4                 b) a contraceptive device releasably connected to the catheter, having a  
5 tubular member having a first end, a second end, and a lumen extending therein, which is  
6 at least in part expandable within the reproductive body lumen from a first configuration  
7 to a second larger configuration, and having a mesh member connected to the tubular  
8 member, which is permeable to allow for tissue ingrowth to thereby occlude the  
9 reproductive body lumen.

1           4. A method of contraception comprising the steps of:

2                 a) inserting within a desired body lumen a contraceptive device comprising  
3 a tubular member and a mesh member connected thereto;

4                 b) expanding the tubular member within the body lumen;

5                 c) securing the expanded tubular member to a wall portion defining at least  
6 in part the body lumen; and

7                   d) epithelializing the mesh member to occlude the body lumen.

1                 5.       The method of claim 4 wherein the step of expanding the tubular  
2       member comprises the step of releasing a radially compressive force on the tubular  
3       member.

1                 6.       The method of claim 5 wherein the contraceptive device is  
2       disposed within a lumen of a delivery catheter, and the step of releasing the radially  
3       compressive force comprises longitudinally displacing the tubular member out a distal  
4       end of the delivery catheter.

1                 7.       The method of claim 4 wherein the expanded tubular member is  
2       disposed within the body lumen for sufficient time for it to be epithelialized within the  
3       body lumen and thereby secured to the wall portion.

1                 8.       A contraceptive or sterilization device for occluding a fallopian  
2       tube to inhibit conception, comprising:

3                 a) a tubular structure having a first end, a second end, and a lumen  
4       extending therein, the tubular structure expandable within the fallopian tube from a first  
5       configuration to a second larger configuration; and

6                 b) a tissue ingrowth element connected to the tubular structure, the tissue  
7       ingrowth element porous to allow for tissue ingrowth to thereby occlude the fallopian  
8       tube.

1                 9.       A contraceptive device installed within a patient's fallopian tube,  
2       comprising

3                 a) a tubular structure having a first end, a second end, and a lumen  
4       extending therein, and having at least a portion thereof which is secured to a tubal wall  
5       portion of the patient's fallopian tube; and

6                 b) a tissue ingrowth element connected to the tubular structure comprising  
7       a porous material with tissue ingrowth therein which occludes the patient's fallopian tube  
8       sufficiently to disrupt conception.

1           10. A contraceptive system, comprising  
2           a) a catheter having a proximal end, a distal end, and a lumen extending  
3 therein; and  
4           b) a contraceptive device releasably connected to the catheter, having a  
5 tubular structure having a first end, a second end, and a lumen extending therein, which is  
6 expandable within the reproductive body lumen from a first configuration to a second  
7 larger configuration, and having a tissue ingrowth element connected to the tubular  
8 structure, which is porous to allow for tissue ingrowth to thereby occlude the reproductive  
9 body lumen.

1           11. A method of contraception comprising the steps of:  
2           a) inserting within a fallopian tube a contraceptive device comprising a  
3 tubular structure and a tissue ingrowth element connected thereto;  
4           b) expanding the tubular structure within the body lumen;  
5           c) securing the expanded tubular member to a wall portion defining at least  
6 in part the fallopian tube; and  
7           d) effecting tissue ingrowth into the tissue ingrowth element to occlude the  
8 body lumen.